



Anti-VP28 of Shrimp white spot syndrome virus, Rabbit-Polyclonal Antibody

Catalog No. GB-10355 **Quantity:** 250 μ l **Applications tested:** ELISA, Western Blot

Antigen species: Shrimp WSSV **Reactivity:** Shrimp WSSV

Host species: Rabbit

Form: Antiserum

Target description

White spot syndrome virus (WSSV) occurs worldwide and causes high mortality and considerable economic damage to the shrimp farming industry. The VP28 was one of the envelope proteins of WSSV. Almost all shrimps infected with WSSV in ponds die within 3 to 4 days after the first dead shrimp was observed with gross lesions ranging from abnormal red body discoloration to white spots in the cuticle.

Antigen

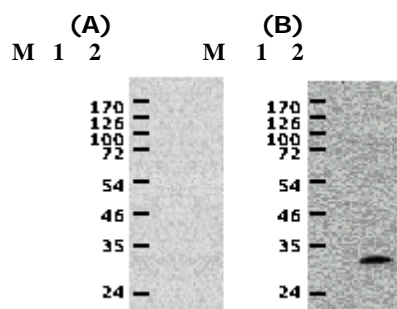
This polyclonal antibody was raised by immunizing rabbit with synthetic peptide located on the VP 28 central domain (69-148) of shrimp WSSV.

Application

The antibody titer is more than 10K for ELISA and 1000 \times for Western Blot. However, it has not been tested in the other applications. For the first testing, we recommend 1/5,000 dilution for ELISA, 1/1000 dilution for Western blot analysis (WB) of recombinant protein, 1/400 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti-VP28 of WSSV pAb (GB-10006)
2. Anti-VP664 of WSSV pAb (GB-10372)
3. Anti-VP26 of WSSV pAb (GB-10382)



Pre-bleed Anti-serum

Lane1: Control (*E. Coli* total cell lysate before IPTG induction)

Lane2: recombinant VP28 protein expression after IPTG induction
1000X diluted of GB-10355 antibody

Western blot Protocol

Antigens are loaded 2 μ g per well in 12% SDS-PAGE. Block membranes with 3% BSA in TBS buffer at RT, 1hr. Wash the membrane with 0.05% Tween 20 in TBS (TBST). Incubated membranes with diluted antiserum (1000x) at RT for 1 hours. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugated at RT for 1 hours. Wash the membrane and add substrate to develop for 3 min.

Storage

It is supplied as lyophilized serum. Redissolve the lyophilized powder with 250 microliter sterile water will restore the original condition. Store at 4°C for short term application. For long-term storage, aliquot and store at -20°C.

References

1. Tsai JM, Wang HC, Leu JH, Hsiao HH, Wang AH, Kou GH, Lo CF. Genomic and proteomic analysis of thirty-nine structural proteins of shrimp white spot syndrome virus. *J Virol.* 2004 Oct; 78(20):11360-70.
2. Witteveldt J, Cifuentes CC, Vlak JM, van Hulten MC.. Protection of *Penaeus monodon* against white spot syndrome virus by oral vaccination. *J Virol.* 2004 Feb; 78(4):2057-61.